

WHAT IS CLAIMED IS:

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1. A method for communicating voice and text associated with a packet-based voice communications session comprising:

receiving voice information from a local participant in a packet-based voice communications session;

converting the voice information into text;

generating packets encoding the voice information and the text; and

communicating the packets encoding the voice information and the text to a remote location.

2. The method of Claim 1, wherein the packet-based voice communications session comprises an Internet protocol (IP) telephony communications session.

3. The method of Claim 1, wherein generating the packets encoding the voice information and the text comprises:

generating a first stream of packets encoding the text; and

generating a second stream of packets encoding the voice information.

4. The method of Claim 3, wherein communicating comprises communicating the first stream of packets using a first Internet protocol (IP) transmission protocol and communicating the second stream of packets using a second IP transmission protocol.

5. The method of Claim 4, wherein:  
the first transmission protocol comprises transmission control protocol (TCP);  
and  
the second transmission protocol comprises user datagram protocol (UDP).

6. The method of Claim 1, further comprising displaying the text using a visual output device.

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7. \ The method of Claim 1, further comprising:

5 ~~receiving~~ packets encoding remote voice information and remote text from the  
remote location;

outputting the remote voice information using an acoustic output device; and displaying the remote text using a visual output device.

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8. An interface for a telecommunications device, the interface operable to:  
receive packets encoding voice information and text of the voice information  
from a remote location, wherein the voice information and the text are associated with  
a packet-based voice communications session;  
5 display the text using a visual display device; and  
output the voice information using an acoustic output device.

9. The interface of Claim 8, wherein the packet-based voice communications  
session comprises an Internet protocol (IP) telephony communications session.

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10. The interface of Claim 8, wherein the packets encoding voice information  
and text comprise:  
a first stream of packets encoding voice information from a participant in the  
communications session at the remote location; and  
15 a second stream of packets encoding text generated by converting the voice  
information.

11. The interface of Claim 10, wherein the first stream of packets is  
communicated using a first Internet protocol (IP) transmission protocol and the second  
stream of packets is communicated using a second IP transmission protocol.

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12. The interface of Claim 10, wherein:  
the first transmission protocol comprises transmission control protocol (TCP);  
and  
25 the second transmission protocol comprises user datagram protocol (UDP).

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13. The interface of Claim 8, further comprising:  
receiving local voice information from a local participant in the packet-based  
voice communications session;  
converting the local voice information into local text;  
5 generating packets encoding the local voice information and the local text; and  
communicating the packets encoding the local voice information and the local  
text to the remote location;

14. The interface of Claim 8, wherein the interface comprises a computer  
10 program embodied in a computer readable medium.

15. The interface of Claim 8, further operable to output the voice information  
using speech synthesis to convert the text into an audio output.

16. The interface of Claim 8, further operable to translate the text from a first  
15 language to a second language.

17. Telephony communications software for communicating voice and text associated with a packet-based voice communications session, the software embodied in a computer readable medium and operable to:

5        establish the packet-based voice communications session with a remote location;  
      receive voice information from a local participant in the packet-based voice communications session;  
      convert the voice information into text;  
      generate packets encoding the voice information and the text;  
      communicate the packets encoding the voice information and the text to the  
10    remote location.

18. The software of Claim 17, wherein the packet-based voice communications session comprises an Internet protocol (IP) telephony communications session.

15        19. The software of Claim 17, further operable to:  
      generate a first stream of packets encoding the text; and  
      generate a second stream of packets encoding the voice information.

20        20. The software of Claim 19, further operable to:  
      communicate the first stream of packets using a first Internet protocol (IP) transmission protocol; and  
      communicate the second stream of packets using a second IP transmission  
25    protocol.

21. The software of Claim 20, wherein:  
the first transmission protocol comprises transmission control protocol (TCP);  
and  
the second transmission protocol comprises user datagram protocol (UDP).

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22. The software of Claim 17, further operable to display the text using a  
visual output device.

23. The software of Claim 17, further operable to:  
receive packets encoding remote voice information and remote text from the  
remote location;  
output the remote voice information using an acoustic output device; and  
display the remote text using a visual output device.

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24. A communications system for communicating voice and text associated with a packet-based voice communications session comprising:

a first communications device operable to establish the communications session with a second communications device, to receive voice information from a local participant in the communications session, convert the voice information into text, generate packets encoding the voice information and the text, and communicate the packets to the second communications device; and

the second communications device operable to receive the packets from the first communications device, display the text using a visual display device, and output the voice information using an acoustic output device.

25. The communications system of Claim 24, wherein the first communications device is further operable to:

generate a first stream of packets encoding the text; and

generate a second stream of packets encoding the voice information.

26. The communications system of Claim 25, further operable to:  
communicate the first stream of packets using a first Internet protocol (IP) transmission protocol; and

communicate the second stream of packets using a second IP transmission protocol.

27. The communications system of Claim 26, wherein:  
the first transmission protocol comprises transmission control protocol (TCP);

and

the second transmission protocol comprises user datagram protocol (UDP).

28. The communications system of Claim 24, wherein the second communications device is further operable to translate the text from a first language to a second language.

29. The communications system of Claim 24, wherein the second communications device is further operable to:

generate an audio speech signal using the text; and  
output the audio speech signal using the acoustic output device.

30. The communications system of Claim 24, wherein the communications session comprises a voice over packet (VoP) telephone call.



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31. A device for communicating voice and text associated with a packet-based voice communications session comprising:

means for receiving voice information from a local participant in a packet-based voice communications session;

5 means for converting the voice information into text;

means for generating packets encoding the voice information and the text; and

means for communicating the packets encoding the voice information and the text to a remote location.

10 32. The device of Claim 31, wherein the packet-based voice communications session comprises an Internet protocol (IP) telephony communications session.

33. The device of Claim 31, wherein the means for generating the packets encoding the voice information and the text comprises:

15 means for generating a first stream of packets encoding the text; and

means for generating a second stream of packets encoding the voice information.

20 34. The device of Claim 33, wherein the means for communicating comprises means for communicating the first stream of packets using a first Internet protocol (IP) transmission protocol and means for communicating the second stream of packets using a second IP transmission protocol.

25 35. The device of Claim 34, wherein:  
the first transmission protocol comprises transmission control protocol (TCP);

and

the second transmission protocol comprises user datagram protocol (UDP).

36. The device of Claim 31, further comprising means for displaying the text using a visual output device.

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37. The device of Claim 31, further comprising:

means for receiving packets encoding remote voice information and remote text  
the remote location;

means for outputting the remote voice information using an acoustic output device; and

means for displaying the remote text using a visual output device.

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